

SYSTEM FOR EXTENDING AN ADDRESSABLE RANGE OF MEMORY

ABSTRACT OF THE DISCLOSURE

A method and system provides a requested memory to a requesting process. The memory is requested by a consumer process residing in application space. The consumer process requests the requested memory from a Very Large Memory (VLM) driver in the operating system. The size of the requested memory may be larger than the maximum size per process supported by the operating system. The VLM driver creates one or more donor processes residing in application space dependent on the size of the requested memory. Each donor process requests an allocation of a portion of memory less than the maximum size per process supported by the operating system. Having received the requested memory, the donor process transfers ownership of the portion of memory to the VLM driver. The VLM driver provides the requested memory provided by the donor processes to the consumer process.

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